

DATA MANAGEMENT APPLICATION PROGRAMMING INTERFACE FAILURE  
RECOVERY IN A PARALLEL FILE SYSTEM

**ABSTRACT**

In a cluster of computing nodes having shared access  
5 to one or more volumes of data storage using a parallel  
file system, a method for managing the data storage  
includes initiating a session of a data management  
application on a session node selected from among the  
nodes in the cluster. The session node receives an event  
10 message in a session queue for processing by the data  
management application, responsive to a request submitted  
to the parallel file system by a source node among the  
nodes in the cluster to perform a file operation on a  
file in the data storage. Following a failure at the  
15 session node, the session queue is reconstructed so that  
processing of the event message by the data management  
application can continue after recovery from the failure,  
and the request can be fulfilled at the source node.